

Figure 1**SEQ ID NO:1**

<u>MGW</u> <u>TMRLVTAALLGLMMVVTG</u> DEDENSPCAHEALLDEDTLFCQGLEVFYPELGNIGCKV	60
<u>VPDCNNYRQKIT</u> SWMEPIVKFPGAVDGATYILVMVDPDAPSRÆPRQRFRHWLVTDIKG	120
<u>ADLKEGKIQQQELSAYQAPSPPAHSGFHRYQFFVYLQEGKVISLLP</u> KENKTRGSWKMDRF	180
LNRFHLGEPEASTQFMTQNYQDSPTLQAPRERASEPKHKQAEIAAC	227

SEQ ID NO:2

DEDENSPCAHEALLDEDTLFCQGLEVFYPELGNIGCKVVPDCNNYRQKITSWMEPIVKFP	60
GAVDGATYILVMVDPDAPSRÆPRQRFRHWLVTDIKGADLKEGKIQQQELSAYQAPSPP	120
AHSGFHRYQFFVYLQEGKVISLLPKENKTRGSWKMDRFLNRFHLGEPEASTQFMTQNYQD	180
SPTLQAPRERASEPKHKQAEIAAC	205

SEQ ID NO:3

<u>MGW</u> <u>TMRLVTAALLGLMMVVTG</u> DEDENSPCAHEALLDEDTLFCQGLEVFYPELGNIGCKV	60
<u>VPDCNNYRQKIT</u> SWMEPIVKFPGAVDGATYILVMVDPDAPSRÆPRQRFRHWLVTDIKG	120
<u>ADLKEGKIQQQELSAYQAPSPPAHSGFHRYQFFVYLQEGKVISLLP</u> KENKTRGSWKMDRF	180
LNRFHLGEPEASTQFMTQNYQDSPTLQAPRGRASEPKHKTRRR	223

SEQ ID NO:4

DEDENSPCAHEALLDEDTLFCQGLEVFYPELGNIGCKVVPDCNNYRQKITSWMEPIVKFP	60
GAVDGATYILVMVDPDAPSRÆPRQRFRHWLVTDIKGADLKEGKIQQQELSAYQAPSPP	120
AHSGFHRYQFFVYLQEGKVISLLPKENKTRGSWKMDRFLNRFHLGEPEASTQFMTQNYQD	180
SPTLQAPRGRASEPKHKTRRR	201

SEQ ID NO:5

ITSWMEPIVK	10
------------	----

SEQ ID NO:6

FPGAVDGATYILVMVDPDAPSR	22
------------------------	----

SEQ ID NO:7

HWLVTDIK	8
----------	---

SEQ ID NO:8

IQQQELSAYQAPSPPAHSGFHR	22
------------------------	----

SEQ ID NO:9

YQFFVYLQEGK	11
-------------	----

SEQ ID NO:10

VISLLPK	7
---------	---

Figure 2

CLUSTAL W (1.81) multiple sequence alignment

PEBP_HUMAN
-----PVDLSKWSGPLSLQEVDEQPQHP-----LHVTYAGAAVDELGK
PEBP_BOVIN
-----PVDLSKWSGPLSLQEVDERPQHP-----LQVKYGGAEVDELGK
Q96S96
MGWTMRLVTAALLLGLMMVVTGDEDENSPCAHEALLDEDTLFCQGLEVFYP--ELGNIGC

*
.
.
.
.

*
*
*
*

*

*
*

.
. *

*

PEBP_HUMAN
VLTPTQVKNRPTSISWDG-----LD SGKLYTLVLTDPDAPSRKDPKYREWHHFLVNVNM

PEBP_BOVIN
VLTPTQVKNRPTSITWDG-----LD PGKLYTLVLTDPDAPSRKDPKYREWHHFLVNVNM

Q96S96
KVVPDCNNYRQKITSM EPIVKFPGAVDGATYILVMVDPDAPSRAEPRQFRWHHLVTDI

:. * : * . : * * * : . * * * * * : * : * : * : * : *

[illegible]

PEBP_HUMAN	PEBP_BOVIN	Q96S96
KGNDISSG----	TVLSDYVGSGPPKGTGLHRYVWLVEQDRPLKCDEPILSNRSGDHRGK	
KGNNISSG----	TVLSDYVGSGPPKGTGLHRYVWLVEQEGPLKCDEPILSNRSGDHRGK	
KGADLKEGKIQQEELSAYQAPSPAHSGFHRYYQFFVYLQEGKVIS----	LLPKENKTRGS	
** : : : *	** * . . . **	**:*** : : ** * : . * * : . . . ** .

[illegible]

PEBP_HUMAN
FKVASFRKKKYELRAPVAGTCYQAEWDDYVPKLYEQLSGK-----

PEBP_BOVIN
FKVASFRKKKYELGAPVAGTCYQAEWDDYVPKLYEQLSGK-----

Q96S96
WKMDRFLNRFHLGEPEASTQFMTQNYQDSPTLQAPRERASEPKHKNAEIAAC
*: * : : : * * * : : : * * *

*
*

.
.

.
.
.
.
.
*
.
*
*

*
.
.
.
.
*
.
.
.

CLUSTAL W (1.81) multiple sequence alignment

Q9D9G2	--MTMKLVAAALCLRLIAAGLWVGLSLTAESIEEGKPGGKPGGGKPGGSGRGCFLPPLP
Q9D9L9	--MTMKLVAAALCLSLIAAGLWVGLSLTAESIEEGKPGGKPGGGKPGGSGRGCFLPPLP
Q96S96	MGWTRMLVTAALLGLMMV-----VTGD-EDENSP-----CAHEALL
Q8WW74	MGWTRMLVTAALLGLMMV-----VTGD-EDENSP-----CAHEALL
	: * *: . :*: :*: :*: *
Q9D9G2	KEDVSLCRNLEVFYMEMGNISCKIVPKCNLYRQKIPAWQAPIVKFHTALDGALEYLLVMVD
Q9D9L9	KEDVSLCRNLEVFYMEMGNISCKIVPKCNLYRQKITAWQAPIVKFHTALD-----
Q96S96	DEDTLFCQGLEVFYPELGNIGCKVVPDCNNYRQKITSWMEPIVKFPGAVDGATYILVMVD
Q8WW74	DEDTLFCQGLEVFYPELGNIGCKVVPDCNNYRQKITSWMEPIVKFPGAVDGATYILVMVD
	: * *:*** * *:*** * *:*** * *:*** * *
Q9D9G2	PDAPSRSNPVMKYWRHVLVSNITGADMKSGSIRGNVLSYSPPTPPPETGVHRYQFFVYL
Q9D9L9	-----VS-----ELGWLKENVGP-----
Q96S96	PDAPSRAEPRQRFWRHVLVTDIKGADLKEGKIQQOELSAYQAPSPPAHSGFHRYQFFVYL
Q8WW74	PDAPSRAEPRQRFWRHVLVTDIKGADLKEGKIQQOELSAYQAPSPPAHSGFHRYQFFVYL
	***** * ***** * * * * * * * * * * * * * *
Q9D9G2	QGDRDISLSVEEKANLGGWNLDKFLQQYGLRDPDTSTQFMTQFDEELSSEFGRINDDQEQ
Q9D9L9	-----
Q96S96	QEGKVISLLPKENKTRGSWKMDRFLNRFLHGEPEASTQFMTQNYQDSPTLOAPRASEP
Q8WW74	QEGKVISLLPKENKTRGSWKMDRFLNRFLHGEPEASTQFMTQNYQDSPTLOAPRASEP
	* *** * * * * * * * * * *
Q9D9G2	FNQK-----
Q9D9L9	-----
Q96S96	KHKNOAEIAAC
Q8WW74	KHKTRRR-----

Figure 4

